C++ 2 Marks Questions.

a) Differentiate between C and C++. (Any two points)
b) Give the syntax of class.
c) Explain any four applications of OOP.
d) Give the syntax and use of fclose( ) function.
e) Explain inline member function.
f) Explain the input operator in C++.
g) Explain reference and dereference operators w.r.t. pointer List two memory management operators available in C++. Also state its use.
h) List c++ stream classes along with their function. (any two classes)
i) Write any four applications of OOP.
j) Define constructor. List types of constructor
k) Explain ios :: app and ios :: in flags
l) Write any two characteristics of friend function.
m) State the need of virtual function in C++. State any Four application of oop.
n) Explain user defined datatype with example. c) Describe use of scop resolution operator with example.
o) Define constructors and it's type.
p) Explain concept of pointer with example.
q) Explain file modes used to perform file operations.
r) List all stream classes used in stream operation.

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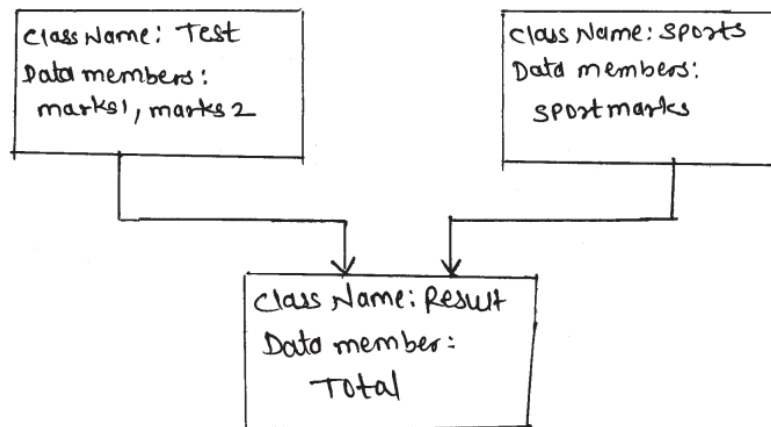**ROHIT NALAVADE**   **SANSKAR THORAT**   **OMKAR GARJE**

C++ 4 Marks Questions.

a) Explain the rules for naming variables in C++. (Any four points)
b) Explain the access specifiers in C++.
c) What is inheritance? Give different types of inheritance.
d) Write a C++ program to find out whether the given number is even or odd (taking input from keyboard)
e) Write a C++ program to find the area of rectangle using class rectangle which has following details –
　　　　i) Accept length and breadth from the user.
　　　　ii) Calculate the area
　　　　iii) Display the result.
f) Explain multilevel inheritance with an example.
g) Write a C++ program to define structure student having data members name, roll no., age. Accept and display data for one student.
h) Write a C++ program for write into a file using file operations
i) Write a C++ program to copy data from one file to another.
j) Differentiate between compile time polymorphism and run time polymorphism. (Any four points)
k) Explain the characteristics of Friend function.
l) Write a program to declare a class measure having data members add1, add2 and add3. Initialize the data members using constructor and store their addition in third data member using function and display the addition.
m) Differentiate between constructor and destructor in C++. (Any four points)
n) State and describe characteristics of object oriented programming.
o) Write a C++ program to declare a class college with name and code. Derive a new class as student with members as name. Accept and display details of one student along with college data.
p) Write a C++ program to declare a class student with data members as roll no and name. Declare a constructor to initialize data members of class. Display the data.
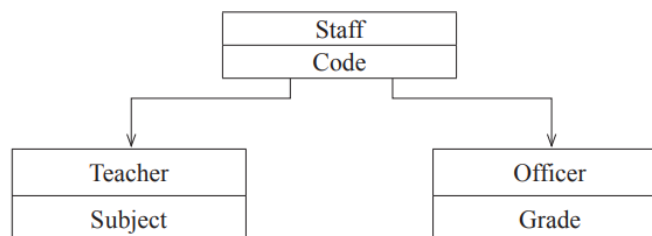q) Describe concept of type casting using suitable example.

C++ 6 Marks Questions.

a) Explain the rules of virtual function.
b) Explain virtual base class with an example.
c) Write a program to declare a class 'item' containing data members as 'item_name', 'code', 'price'. Accept and display the information for one object using pointer to that object.
d) Describe 'this' pointer in C++ with an example.
e) Write a program to declare a class 'employee' containing data members 'emp-id' and 'salary'. Accept and display this data for 10 employee
f) Write a C++ program to implement multiple inheritance as shown in Figure No. 1. Accept and display data of test marks and sport's marks using object of class 'result'.

g) Write any two characteristics of static data member. Write C++ program to count number of objects created with the help of static data member.
h) Write a C++ program to overload "+" operator so that it will perform concatenation of two strings. (Use class get data function to accept two strings)
i) Write a program to implement inheritance as shown in figure No. 2. Assume suitable member function

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